## Scenario Worksheet

## Practice and Scenario Description:

Information Type	Data
Region	Delta States
State	Louisiana
Discipline Group	Agricultural Engineering
Practice Code/Name	374 - Farmstead Energy Improvement
Scenario ID	5
Scenario Name	Ventilation - HAF

	A system of fans are installed to create a horizontal air circulation pattern; the new system promotes efficient heat and moisture distribution. In a typical 10,000
Scenario Description	square foot greenhouse, 10 HAF fans are needed. Fan performance meets Energy Audit efficiency criteria as tested by AMCA or BESS Labs.
Before Practice Situation	Inefficent air circulation system in a greenhouse.
After Practice Situation	High-efficiency air circulation system which reduces energy use. The new equipment will provide suitable air quality and reduce overall power requirements (kW) compared to the existing system as evidenced in an energy audit. Associated practices/activities: may include 122-AgEMP - HQ, and other activities within 374-Farmstead Energy Improvement. The resource concern is inefficient use of energy in the farm operation which increases dependence on non-renewable energy sources and can be addressed through improved energy efficiency. Any improvements are based on a Type 2 energy audit meeting the requirements of ASABE S612.
Scenario Feature Measure	Each
Scenario Unit	Each
Scenario Tynical Size	1

## **Cost Summary:**

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Cost Category	Scenario Cost	Scenario Cost/Unit	
Materials	\$195.45	\$195.45	
Equipment/Installation	\$0.00	\$0.00	
Labor	\$53.64	\$53.64	
Mobilization	\$25.75	\$25.75	
Acquisition of Technical Knowledge	\$0.00	\$0.00	
Foregone Income	\$0.00	\$0.00	
Total	\$274.84	\$274.84	

## Cost Details:

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Cost Category	Component ID	Component Name	Component Description	Unit	Price (\$/unit)	Quantity	Cost
			High efficiency Horizontal Air Flow (HAF) fan,				
			controls, wiring, and associated				
Materials	1189	Fan, HAF, 1/10 to 1/15 HP	appurtenances. Materials only.	Each	\$195.45	1	\$195.45
Labor	230		Labor requiring a high level skill set: Includes carpenters, welders, electricians, conservation professionals involved with data collection, monitoring, and or record keeping, etc.		\$26.82	2	\$53.64
			Mobilization of skilled labor: Includes carpenters, welders, electricians, conservation professionals involved with data collection,		405 75		405 75
Mobilization	1141	Mobilization, Skilled labor	monitoring, and or record keeping, etc.	Hour	\$25.75	1	\$25.75